

Title (en)

METHOD OF JOINING TITANIUM AND TITANIUM-BASED ALLOYS TO FERROUS METALS USING TANTALUM

Title (de)

VERFAHREN ZUM VERBINDEN VON TITAN UND TITANBASIERTEN LEGIERUNGEN MIT EISENMETALLEN ANHAND VON TANTAL

Title (fr)

PROCÉDÉ D'ASSEMBLAGE DE TITANE ET D'ALLIAGES À BASE DE TITANE À DES MÉTAUX FERREUX À L'AIDE DE TANTALE

Publication

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Application

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Abstract (en)

[origin: US2013156493A1] A method of joining, e.g., by fusion welding, titanium, and titanium-based alloys to ferrous metals, and the intermetallic weld pool created by practice of the method is described. The instant invention involves the use, inclusion or deployment of tantalum into the weld pool and upon cooling a weld, to create a surprisingly strong intermetallic bond, weld, or joint.

IPC 8 full level

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